

Applicant : Charles M. Olds
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In the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1-15. (canceled)

16. (currently amended) A pressure regulator comprising:

a housing having an interior space, at least one input into the interior space and an output out of the interior space, the housing being configured to have a fluid enter into the interior space through the at least one input and exit the interior space through the output, the housing having a first portion and a second portion;

a closure member for each input, the closure member selectively covering an associated one of the at least one input for preventing fluid flow into the interior space of the housing;

a diaphragm in the housing, the diaphragm including a periphery captured between the first portion of the housing and the second portion of the housing, the diaphragm being interconnected to the closure member; and

a biasing member for each closure member, the biasing member configured to selectively bias the closure member away from the associated one of the at least one input to allow fluid flow through the input;

wherein the diaphragm is configured to move against the biasing member when pressure in the interior space is above a predetermined amount, whereby the closure member will move in response to movement of the diaphragm to close the at least one input such that fluid is not able to pass into the interior space through the input; and

wherein the diaphragm includes a pair of sleeves, each sleeve having a rolling receiver portion receiving one of the biasing members therein, and the diaphragm includes a substantially planar flat surface portion located interior of the periphery of the diaphragm captured between the first portion of the housing and the second portion of the housing, the planar flat portion surrounding the sleeves and being located between the sleeves, whereby the rolling receiver portion-portions can move with movement of the biasing member-members

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without substantially moving the substantially planar flat surface portion.

17. (original) The pressure regulator of claim 16, further including:
a stabilizing member in the housing, the stabilizing member surrounding the biasing members for maintaining the biasing members in position.
18. (original) The pressure regulator of claim 17, wherein:
the stabilizing member comprises a cup surrounding a bottom of each biasing member.
19. (currently amended) The pressure regulator of claim 18, wherein:
each sleeve of the diaphragm includes one ~~cup~~ of the cups therein, whereby ~~the~~ each cup is located between the biasing member and the diaphragm.
20. (original) The pressure regulator of claim 18, further including:
a stop for each cup, the stop being located within the housing, the stop configured to abut against a top of the cup to prevent upward movement of the cup past the stop.
21. (original) The pressure regulator of claim 16, wherein:
the housing includes a changeover knob selectively interconnected to one of the closure members, the changeover knob having a first position aligned with a first one of the closure members and a second position aligned with a second one of the closure members;
when the changeover knob is in the first position and the pressure is below the predetermined amount, the first one of the closure members will not cover a first one of the inlets; and
when the changeover knob is in the second position and the pressure is below the predetermined amount, the second one of the closure members will not cover a second one of the inlets.

22-26. (canceled)

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27. (previously presented) The pressure regulator of claim 16, further including:
a plate having a pair of apertures therein, each aperture surrounding one of the biasing members.

28. (new) The pressure regulator of claim 16, wherein:
a transition between the substantially planar flat surface portion and the sleeves is substantially perpendicular.